tech.mit.edu



WEATHER, p. 2 FRI: 48°F 37°F

SAT: 44°F | 28°F Increasing clouds.

SUN: 43°F 30°F Mostly cloudy.

Volume 132, Number 4 Friday, February 17, 2012

President Susan J. Hockfield announces resignation

MIT to start new fundraising campaign, 'best to begin this chapter with new leadership'

By Jessica J. Pourian and Ethan A. Solomon

Susan J. Hockfield, MIT's 16th president, announced yesterday morning her decision to step down from the presidency after seven

"The Institute is now moving forward on a new set of ambitious goals, and I have concluded that the powerful momentum we have built makes this an opportune moment for a leadership transition," she wrote in a campuswide email sent at 9 a.m. sharp.

Hockfield, who assumed the presidency in December of 2004, succeeded Charles M. Vest, who was president from 1990 to 2004. Hockfield had previously served as a professor of neuroscience and provost of Yale University. She is the first woman, and the first life scientist, to serve as an MIT president.

In her email, titled "Looking to

the future," the president cited MIT's new international partnerships, the MITx initiative, the MIT 2030 vision,

Read the

full text of

letter.

p. 10

and an increased undergraduate class size INSIDE — among others — as examples of important ongoing efforts. She also references Hockfield's MIT's fiscal perfor- resignation mance through the financial crisis — MIT raised nearly \$3 billion during her presi-

dency, according to the MIT News Office, but also saw steep budget

While staying on to continue to see these goals come to fruition "tempted" Hockfield, she wrote that the necessary fundraising to support these ambitions will "require the full focus and sustained attention of the Institute's president over many years." As part of the MIT 2030 framework, for instance, the Institute hopes to raise \$750 million

— and that's just one component of MIT's complex future.

"I have concluded that it would be best for the Institute to begin this next chapter with new leadership,"

In an interview with The Tech yesterday afternoon, Hockfield said that the Institute is preparing to begin a new capital campaign to finance its next major period of growth, which she expects could take about eight years. In such campaigns, MIT raises money to support big institutional objectives including (but not limited to) new construction and renovation, scholarships and fellowships, research, and student life.

The last of these "comprehensive" campaigns ended in 2005, and MIT raised \$2.05 billion, some of which was used to finance the construction of the Stata Center and the Brain and Cognitive Sciences

Resignation, Page 7



ERC releases plan for global initiative

Many visions of the future presented during MIT150 concern the Institute itself and nearby Kendall Square — but MIT's Environmental Research Council (ERC) had larger goals in mind, global-sized goals. In December, the ERC released an implementation plan for the establishment of a Global Environment Initiative (GEI), whose challenge is to "integrate the Institute's core strengths in ... research to better understand the global environment and manage our role in it."

The GEI, complementary to MIT's Energy initiative (MITEI), was largely inspired by how successful MI-TEI has been in formalizing energy research over the past five years. Although many MIT researchers currently focus their work on global sustainability, there is need to organize these efforts. The GEI aims to foster interdisciplinary collaboration and communication that will lead to more rapid innovation, termed by the report as "building strength on

The GEI created an initial re-

search agenda addresses six key areas: climate, oceans, water, ecological resilience, contamination mitigation, and sustainable societies. By assigning headers to a limited number of research priorities, the GEI will concentrate the currently "scattered" research endeavors. At the ERC's December forum, Dana Entekhabi, ERC chair and professor of civil and environmental engineering, compared current environmental research to a large "trial-and-error" method; ultimately, the goal is to create a well-defined, "rational" method of sustainably enabling human development.

One of the initiative's first concrete steps will be to raise funding for graduate and postdoctoral fellowships, enabling cross-disciplinary projects that would otherwise have a hard time securing initial funding. As for Institute-wide engagement, the GEI hopes to host multiple educational workshops and symposia, and launch a new undergraduate minor in global studies.

—Adisa Kruayatidee

A short history of Hockfield and her influence on MIT

The efforts of the MIT president since her arrival

By Jessica J. Pourian EDITOR IN CHIEF

During her seven years as president, Susan J. Hockfield oversaw an aggressive expansion of MIT's global footprint.

ONLINE

Check out an

interactive

timeline of

Hockfield's

accomplish-

ments at

A6fPK7.

http://bit.ly/

Her years as president have been markedly outward-facing. During her tenure, she skillfully advanced MIT's long-term interests by engaging in parnterships overseas and by securing a variety of donations

for the David H. Koch Institute on Integrative Cancer Research and Fariborz Maseeh Hall, among other things. Hockfield's admin-

istration has raised over \$3 billion, more money than any one president has made during his term. She has created a number of relationships in politics and abroad. From bringing Obama to campus to creating alliances with Singapore and Russia, Hockfield has brought MIT's influence around the globe.

MIT's global footprint

Obama came to MIT in 2009 for his address on energy, and was the first-ever sitting president to be given a tour of a lab at MIT. Abroad, Hockfield forged relations with Russia and China. On Oct. 26, 2011, MIT struck a partnership with the Russian Skolkovo Foundation, which encompassed a three-year contract to develop a new graduate research university, the Skolkovo Institute of Science and Technology . "MIT and SkTech, working together, aim to create a new model for graduate education and research in science and technology," Hockfield said in a press release from the MIT News Office

In China , Hockfield helped establish the China Scholarship Council Graduate Fellowship Program and a collaboration between MIT and the Shanghai Jiao Tong University. The fellowship program, which opened in September, is open to MIT graduate students who are also Chinese citizens. Each year, five masters students and five doctoral students will be selected by the Chinese Scholarship Council and be given funding to get their degrees

History, Page 10



JASWANTH MADHAVAN — THE TECH The five-percent MIT student discount promotion at Shaw's is over. The marketing department did not respond to multiple

attempts to contact about why the discount was discontinued.

IN SHORT

MIT-EMS released reports of a particularly strong stomach virus going around **Boston and Cambridge**. Be sure to wash your hands and get sleep to keep yourself

Balfour will be on campus today and Tuesday Feb. 21 - Friday Feb. 24 to take Brass Rat orders for the Class of 2014. Orders can be placed in Lobby 10 from 10 a.m. to 3 p.m.

There is no school on Monday, Feb. 20. Classes on Tuesday will follow a Monday schedule. Have a safe Presidents Day!

Send news information and tips to news@tech.mit.edu.

DIVERSITY OR DISCRIMINATION?

Are MIT's affirmative action policies fair? OPINION, p. 4

KOHLER ON DEAR UNCLE

An interview with the director of Dramashop's production. ARTS, p. 5

GO JUST FOR THE FREE FOOD?

You're not alone, we're evolving a sense for finding it. FUN, p. 8





THE SIMPLY SUBLIME **BOSTON BALLET**

The premiere ballet opens 2012 with a striking show. ARTS, p. 6

BASKETBALL REDEMPTION

Men's Basketball defeats WPI. SPORTS, p. 12

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Italy plans to tax Catholic Church on commercial property

ROME — Over the years, the Italian government has quietly passed scores of laws that benefit the Roman Catholic Church, but it is rare for it to issue a public statement announcing it intends to strip the church of privileges.

The government of Prime Minister Mario Monti took that step Wednesday, telling the European Commission that it intends to change Italian law to ensure the church pays property tax on the parts of its buildings used for commercial ends.

The church owns vast amounts of property in Italy, and the move is aimed at making sure that convents that offer bed and breakfast or church buildings that rent space to shops pay their

The change — once it is formally drafted and approved by Parliament — could result in revenues of \$650 million to \$2.6 billion annually, according to municipal government associations. It could also set an example for other debt-strapped European countries - most notably Greece and Spain - where there is growing popular resentment over tax breaks for the

-Rachel Donadio, The New York Times

Camps agree to early election in Maldives

MUMBAI, India — Rival factions in the Maldives agreed Thursday to an early election to resolve the political crisis there, after Indian officials intervened.

The country has been in tumult since Feb. 7, when Mohamed Nasheed, the country's first democratically elected president, stepped down in disputed circumstances.

No date was set for the new election, but representatives of Nasheed and the current president, Mohammad Waheed Hassan, said that the voting could take place in a few months, rather than in October 2013 as originally scheduled. The Parliament would have to change the constitution to make the early elec-

If the agreement holds — Nasheed did not affirm the deal Thursday night — it could defuse tensions in the Maldives, a country of 1,200 islands in the Indian Ocean that is best known for its luxurious beach resorts.

Nasheed, a charismatic figure who became a leading voice on global climate change, has said that his departure from office was effectively a coup by security forces. By contrast, Hassan and other political leaders said Nasheed's resignation was voluntary, prompted by street protests against him.

–Vikas Bajaj, The New York Times

Chrysler withdraws energy department loan application

DETROIT — Chrysler said Thursday that it had dropped its longstanding request for \$3.5 billion in federal energy loans after the Obama administration proposed tight restrictions on further aid to the company.

The withdrawal of Chrysler's application was not unexpected. The company's chief executive, Sergio Marchionne, said last month that he was losing hope that the money would become available anytime soon.

But the decision may reflect a greater degree of political scrutiny of any additional financial assistance to the auto industry during an election year. Last winter, General Motors withdrew its application for \$14.4 billion in low-interest loans from the Energy Department after deciding it did not need the money.

Chrysler had considered the loans — intended to assist in the development of more fuel-efficient vehicles — to be an integral part of its operating budget.

—Bill Vlasic, The New York Times

Colleges statewide see record applicants

THE BOSTON GLOBE

Dozens of local colleges and universities are seeing record numbers of freshman applicants this year, including Northeastern University, Boston University, Boston College, the Massachusetts Institute of Technology, and three campuses of the University of Massachusetts.

"The reasons for it are probably as different as the institutions are," said Mark Campbell, vice president for enrollment at Berklee College of Music, which had a 14 percent jump in applicants during last year's record numbers. But they probably include increasing interest from foreign students and a possible jump in the number of schools to which individual American students apply.

Northeastern, which said it believed it drew more applicants last year than any other private university in the country, is expected to announce Thursday that it broke its own record this year: 44,174 students applied for 2,800 spots in its incoming freshman class.

Jane Brown, Northeastern's vice

ment, attributed the surge partly to the school's co-op model, which alternates semesters of study with relevant employment.

"I think it goes back to what the students and families — in particular, families — see as a clear return on investment," she said.

The University of Massachusetts Lowell had a 20 percent jump this year. UMass Boston is up 13.1 percent. At UMass Dartmouth, freshman applications are stable, but transfers are up 20 percent.

And at UMass Amherst, applications have been increasing steadily since 2004, breaking the record this vear at 34,200 so far, said Kevin Kelly, director of admissions.

"It's good news for us; it gives us a rich and deep pool of students to select from," Kelly said. On the other hand, he added with a laugh, "it's a lot of reading to do."

BU received 43,979 applications, a 5.3 percent increase over last year. That included a 20 percent increase in early decision applicants and a 19 percent increase in international students, trends that appeared at other schools as well.

At BC, the numbers looked similar, with a 3.3 percent increase to 34,050 applicants, the most in the school's history.

Even though MIT saw only a one percent increase, its smallest in seven years, it, too, broke its own record. Stuart Schmill '86, dean of admissions, said the leveling off was welcome and possibly due to efforts to confine recruiting to the extremely qualified.

Amherst College also saw a one percent, albeit record-breaking, jump. Tom Parker, who oversees admissions there, said his staff was feeling overwhelmed.

"You hire somebody new to read all these applications in the spring, and then in the fall they can't sit there and twiddle their thumbs, so they go out and recruit like the rest of us," Parker said. "Naturally that generates even more applications. It's a crazy irony."

Three local women's colleges Smith, Wellesley, and Mount Holyoke - reported record numbers this year. Smith was so pleased with its turnout that its admissions office invited the entire campus in for cake.

Egypt uses Israeli treaty as bargaining chip

By David D. Kirkpatrick

CAIRO — The Islamist party that leads the new Egyptian Parliament is threatening to review the 1979 peace treaty with Israel if the United States cuts off aid to the country over a crackdown on U.S.-backed nonprofit groups here.

The pact is considered a linchpin of regional stability, and the statements, from at least two senior leaders of the party, the political arm of the Muslim Brotherhood, represent the first time that Egyptians have explicitly raised it during an escalating standoff over the crackdown.

The Obama administration and congressional leaders have already warned Egypt that the United States might cut off its annual aid to the country, which in the most recent budget came to \$1.3 billion in military supplies and about \$250 million in other subsidies, including some money directed to the nonprofit groups under investigation. At least two senators have introduced legislation that could curtail the aid, and the Brotherhood released its statements Thursday as the House Foreign Affairs Committee held a hearing on the matter.

Leaders of the Brotherhood have said that they would respect the U.S.brokered 1979 treaty, and the seriousness of their new threats is hard to assess. Many analysts, as well as some Brotherhood leaders here, have cited internal domestic reasons to respect the treaty, mainly because it ensures peaceful borders at a time when Egypt can ill afford the cost of a military buildup and its economy teeters on the brink of collapse.

But at the same time, Egyptians have long considered U.S. aid as a kind of payment for preserving the peace despite the popular resentment of Israel over its policies toward the Palestinians, widely seen here as a violation of the treaty.

In the clearest of multiple Brotherhood statements on the subject. Essam el-Erian, who is chairman of Parliament's foreign affairs committee, told Reuters that the aid was "one of the commitments of the parties that signed the peace agreement, so if there is a breach from one side it gives the right of review to the parties.

"We will be harmed," he added, "so it is our right to review the

The crisis was set off by a criminal investigation into the foreign financing of nonprofit groups; the inquiry began last spring under the military council that took power after the ouster of President Hosni Mubarak. The council kept on the books severe restrictions on the operations and financing of nonprofit groups that made almost all the independent advocacy or rights groups operating in Egypt technically illegal.

WEATHER

Snowfall-deficient precipitation for today

By Roman Kowch

STAFF METEOROLOGIST

While the second half of January brought some hope for snowlovers across New England, the past two weeks have not been so promising. The same story is true for today as southerly flow is bringing in moisture, rainfall, and above-average temperatures. This unusual weather can be explained through the February jet stream (i.e. storm track), which has directed the most intense storms through Canada and prevented others from moving toward New England. Sometimes

the jet has also split itself, allowing systems to pass to our south and leave New England free of any precipitation.

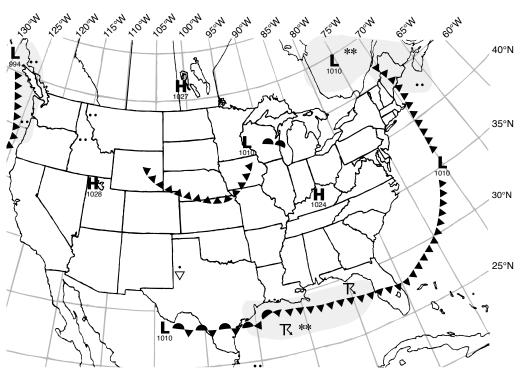
During the holiday weekend, after the passage of a cold front tonight, another system will move past New England well to the south. The system should only bring clouds to the area. But looking toward the future, one weather model predicts a nor'easter about a week from today. While this seems promising for snow enthusiasts, do take that prediction with a grain of salt. The margin of error grows rapidly when forecasting that far in advance.

Extended Forecast

Today: Showers this morning, clearing afterwards. High 48°F (9°C). Tonight: Mostly clear, and cooler. Low 28°F (-2°C). W wind at 10-15

Tomorrow: Sunny, becoming cloudy by evening. High 44°F (7°C). W wind at 10-15 mph.

Sunday: Mostly cloudy. High near 43°F (6°C). Low near 30°F (-1°C). Monday: Sunny. High near 41°F (5°C). Low near 27°F (-3°C).



Situation for Noon Eastern Time, Friday, February 17, 2012

| Weather Systems | Weather Fronts | Precipitation Symbols | | | Other Symbols | |
|-----------------|------------------------|-----------------------|------|----------------|---------------|-------------------------------|
| | | | Snow | Rain | | Fog |
| High Pressure | Trough Warm Front | Showers | * | $\dot{\nabla}$ | ス | Thunderstorn |
| Low Pressure | Warm Front Cold Front | Light | * | • | $ \infty $ | Haze |
| § Hurricane | Stationary Front | Moderate | ** | •• | | piled by MIT orology Staff |

Friday, February 17, 2012

Seven arrested in Olympus accounting cover-up

By Hiroko Tabuchi

THE NEW YORK TIMES

OSAKA, Japan — The Japanese authorities arrested seven central figures in the huge accounting scandal at Olympus — including the camera-maker's former chairman and executive vice president — on Thursday as part of investigations into a decade-long cover-up that has prompted concern over what critics say is lax corporate governance at Japanese companies.

Tsuyoshi Kikukawa, a former chairman and president of Olympus, was arrested in Tokyo along with two other former executives on suspicion of having falsified financial statements, Tokyo prosecutors said. Two former investment bank-

ers suspected of helping to set up the cover-up, and two of their associates, were also arrested.

Olympus said that it was aware of the gravity of the situation and was cooperating fully with the authorities.

A panel of experts hired by Olympus to investigate the cover-up has accused the former executives of masking investment losses racked up in Japan's bubble economy over a period of at least 13 years. Those losses were eventually accounted for in transactions disguised as merger fees paid to overseas investment funds.

The irregular accounting came to light in October when Olympus fired Michael C. Woodford, who was its president and chief executive.

At the time, Kikukawa attributed the dismissal to Woodford's aggressive Western management style. But Woodford, a Briton, said he had been fired for questioning a series of payouts made by the company between 2006 and 2008, and he provided what he said was evidence to the news media. Kikukawa subsequently resigned from the company.

Woodford then began a bid to return to Olympus, whose share price has collapsed since the scandal broke, to lead a turnaround. But he abandoned that bid in December after the company's biggest domestic shareholders sided against him in a move that some foreign investors have said confirms their worst fears of corporate Japan's resistance to outsiders and to change.

Cameron details arguments against Scottish independence

By John F. Burns and Alan Cowell

THE NEW YORK TIMES

LONDON — Arguing that the centuries-old "ties that bind" Britain together were under threat from Scottish separatism, Prime Minister David Cameron traveled to Edinburgh on Thursday to meet with First Minister Alex Salmond in what was seen here as the first sparring bout of a longer battle over an independence referendum.

But the meeting suggested just how drawn out the dispute could be, with the two leaders casting the results of the talks in starkly different terms.

Salmond said the talks had "moved on quite substantially," and that the men had narrowed the areas of disagreement, The Associated Press reported. But Cameron said that "on the issue of independence, separating Scotland, leaving the United Kingdom, I am afraid there wasn't much progress."

The meeting came after months of maneuvering, with Salmond saying he had been unable to get Cameron to agree to talk. In the end, Cameron coupled the meeting with a speech in Edinburgh in which he reached out directly to the Scottish people, lacing his pragmatic arguments on the financial and military advantages of the union with emotional appeals.

"I am 100 percent clear that I will fight with everything I have to keep our United Kingdom together," Cameron said. "To me, this is not some issue of policy or strategy or calculation — it matters head, heart and soul. Our shared home is under threat, and everyone who cares about it needs to speak out."

Would-be plane bomber is sentenced to life in prison

DETROIT — The Nigerian man who tried to blow up a Detroit-bound airliner with explosives concealed in his underwear on Christmas Day in 2009 was sentenced Thursday to life in prison by a federal judge who said his crime and subsequent lack of remorse demanded the maximum possible punishment.

The man, Umar Farouk Abdulmutallab, who pleaded guilty in October and admitted to working on behalf of al-Qaida, shouted, "Allahu akbar," or "God is great," five times during the sentencing hearing. He asserted that Muslims were "proud to kill in the name of God, and that is what God told us to do in the Quran."

Five people on the flight, including a flight attendant who helped put out a midair fire that Abdulmutallab started with his explosives, spoke during the hearing about the nightmares and fear they had experienced since the episode.

Judge Nancy G. Edmunds of U.S. District Court ordered Abdulmutallab to serve the maximum sentence of four consecutive life sentences, plus an additional 50 years, on the charges, which included conspiracy to commit an act of terrorism and attempted use of a weapon of mass destruction. Edmunds denied a motion by Abdulmutallab, who represented himself during much of the case, with the assistance of a standby lawyer, to declare life imprisonment as cruel and unusual punishment because his act did not kill or seriously injure anyone.

-Nick Bunkley, The New York Times

Santorum leads in Ohio and gains across US

With the primary in Ohio three weeks away, Rick Santorum is now leading there, according to the newest Quinnipiac University poll.

Santorum has the support of 36 percent of likely Republican primary voters, trailed by Mitt Romney, with 29 percent. Newt Gingrich follows at 20 percent, and Ron Paul has nine percent.

And national polls, including a New York Times/CBS News survey, showed Santorum closing in on Romney's overall lead. The two candidates are now battling for votes in Michigan, where Romney's father was governor.

Michigan and Arizona hold primaries on Feb. 28, and Ohio and several other states follow on Super Tuesday, March 6.

In Ohio, Santorum's backing comes from key groups of Republican voters, including white evangelical Christians, Tea Party supporters and conservatives. He is backed by four in ten voters from each of those groups.

Romney has the support of about a quarter of conservatives and evangelicals, but only one in five Tea Party supporters. Romney derives much of his support from moderates, voters over 65 and people with higher incomes.

—Allison Kopicki, The New York Times

STUDENTS!

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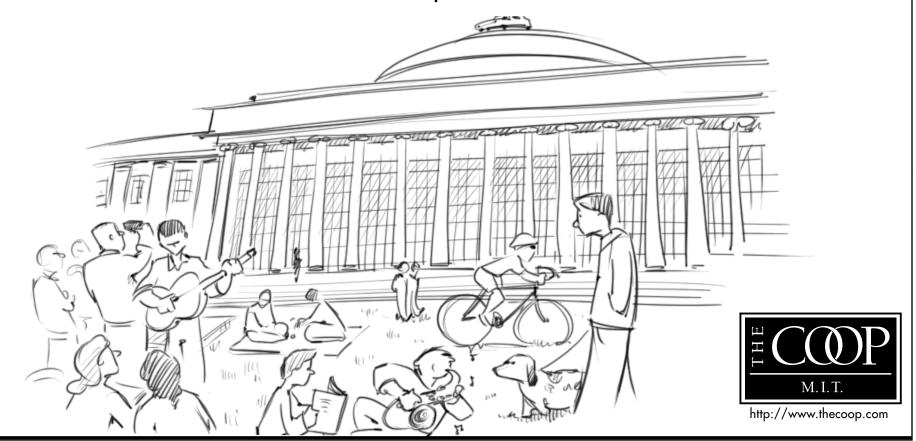
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GUEST COLUMN

After 150 years, MIT is heading in the wrong direction with affirmative action

The policy for hiring women and underrepresented minorities hurts MIT's mission of being merit-based institution

By Brandon Briscoe

A key question brought up at the recent MIT Diversity Summit, and the MLK Jr. annual breakfast, was how can MIT balance excellence with diversity? It has been commonly noted that students and faculty alike perceive tension within the Institute between the frequent appeals for increased diversity, and the culture of hard work and meritocracy that make MIT what it is. This question received heavy emphasis in the 2010 Report on the Initiative for Faculty Race and Diversity. One of the final statements of that report was that, "While almost everyone at MIT would like the Institute to be an institution of merit and inclusion, it will be difficult to reach this ideal if race and ethnicity are ignored and presumed irrelevant."

For the good of the Institute, I feel compelled to rephrase this — while almost everyone at MIT would like the Institute to be an institution of merit and inclusion, it will be difficult to reach this ideal if race, ethnicity, and gender continue to play such a big role in the social engineering agenda of the administration of MIT.

This agenda actively pursued across the Institute — the goals of which are to dramatically increase the number of women and underrepresented minorities in the student and faculty body at MIT, and thereby to attempt to increase nationwide participation by the same in STEM fields — is well-intentioned, but eroding not only the meritocracy at MIT, but the quality of experience that these same females, minority students, and faculty experience here.

It will be difficult to reach this ideal if race, ethnicity, and gender continue to play such a big role in the social engineering agenda of the administration of MIT

To anyone who claims that MIT's affirmative action policies only focus on outreach recruiting but do not provide preference in admissions, faculty hiring, or positions, and therefore do not discriminate, then please explain the following: last spring, a gloating announcement was made by the interim dean of the School of Engineering stating that, for the first time ever, more women than men were hired for faculty positions that year. Compare this with the fact that in 2011 women comprised only 26 percent of the graduate student body in the MIT School of Engineering, and only 11 percent of career engineers nationally. Unless we conclude that the female student and postdoc engineering population is vastly more qualified then their male neers, which we have no reason to believe then clearly there is more going on at MIT than just "attracting" more female faculty. The same can be said for racial and ethnic considerations.

There is more concrete evidence of the way in which affirmative action at MIT really works. At the MLK Jr. breakfast this year, President Hockfield stated, "We need to engineer a set of underlying institutional mechanisms, expectations, habits, and rhythms that make diversity and inclusion simply part of what we work on here, every day." She then went further to point out that, as reported by MIT News, the School of Science is identifying new funds to expand its pool of URM faculty. Wait a second - last time I checked, reserving job positions for certain racial groups is blatantly against federal law. Title VII of the Civil Rights Act of 1964 prohibits not only intentional discrimination, but also practices that have the effect of discriminating against individuals because of their race in any aspect of employment including: hiring and firing, recruitment, and training and apprenticeship programs. Can you imagine the outrage if President Hockfield stated that the School of Science was raising funding specifically for hiring more white faculty?

MIT claims to be a fair, equitable, inclusive, and merit-based institution. Yet, when the powers that be at this institute essentially declare that, "We are doing everything we can to admit, hire, and promote more women and underrepresented minorities, necessarily at the expense of white and Asian men" — and we compare this to the definition of discrimination: "Treatment or consideration of, or making a distinction in favor of, a person based on the group, class, or category to which that person belongs rather than on individual merit," then how is MIT not being discriminatory and hypocritical?

The affirmative action plan at MIT is instituted in different ways. Officially, MIT uses policies such as "7.1.3 Affirmative Action Serious Search," which mandates special recruiting and hiring consideration processes for women and underrepresented minorities. Unofficially, affirmative action is achieved by giving preference in admissions and hiring. To anyone who wants to argue about the latter claim, I think hiring statistics like those I presented earlier and the statements of the administration speak for themselves. Either way, both of these practices are illegal under the law.

Don't get me wrong, every student and faculty member that I have ever met at MIT have the intelligence and ambition to "deserve" to be here — but when admissions boards and faculty hiring committees start placing racial and gender goals high on their list, then the culture of fairness and merit go by the wayside. Additionally, the salience of the constant push for more women and underrepresented minorities at MIT has actually in some ways hurt the same people these policies were meant to assist. Many women and minorities at MIT report feeling that they don't know whether or not they "deserve to be here" and feel like they are perceived with such suspicions by their white and Asian male colleagues. The unfortunate reality is that as long as race, ethnicity, and gender play a large role in admissions and hiring, then such thoughts and assumptions will never go away, nor can they.

Reverse discrimination at MIT goes beyond admissions and hiring, it also affects preference for committee positions, promotions, awards, and invitations for speaking engagements. As an example of this, in the most recent Institute report on the Status of Women Faculty in the Schools of Science and Engineering at MIT in 2011, many women faculty complained that overrepresentation of women on committees has become burdensome. "All of the committees are supposed to have a woman, but there are not enough women to go around. It is crazy," was one of the quotes in the report. The irony here is that the reason women are overrepresented on committees in 2011 is that this was a recommendation from the 1999 MIT report "A Study on the Status of Women Faculty in Science at MIT," which stated that women faculty should be on more committees as a means to achieving

Reverse discrimination at MIT goes beyond admissions and hiring

I concur with the woman who observed the "crazy" in these policies; the artificial push for more women and minorities in anything and everything at MIT, regardless of whether or not there is any discrimination to be overcome, is crazy. Not only that, but it has become in some ways counterproductive to the very goals these policies are meant to achieve. The fact is that both recent Institute reports regarding diversity at MIT found zero evidence of any systematic discrimination against women or minorities, and not only that, but the reports inadvertently highlight evidence that MIT diversity policies might be giving preferential treatment. The 2011 report on women stated that, "Indeed, a subset of faculty suggested that it can be helpful to be a woman in a field: 'I have definitely found it to be advantageous to be a woman and get speaking slots." This theme of preference seems pervasive across the Institute.

As a white male, how am I supposed to feel anything but discriminated against and offended by MIT's policies of preference and "inclusiveness" for everyone but me? Furthermore, how does such reverse discrimination further the core mission of MIT?

For the good of everyone, MIT needs to stop obsessing over gender and race, and start refocusing on merit and true equity, fairness, and inclusiveness. Some contend that affirmative action measures are necessary to overcome past discrimination, but does fighting past discrimination with reverse discrimination ever achieve the stated goal of ending discrimination altogether? I call for fairness, equality, and meritocracy. If MIT accepts that, then it will certainly be a great institution for another 150 years, if not, then I have my doubts.

Brandon Briscoe is a senior in Courses 15 and 17.

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INTERVIEW

Dear Uncle, there's madness afoot

The Tech sits down with director Anna Kohler for all the juicy details on Dramashop's new production

By Daniel Parker

Last week, The Tech sat down with Anna Kohler, Senior Lecturer in MIT's Musical and Theater Arts Department, who is directing MIT Dramashop's most recent production, My Uncle, a reimagination of Anton Chekhov's classic 1897 play Uncle Vanya, which explores the ideas of wasted life, frustrated desire, and alienation in the setting of a Russian country estate. But My Uncle transports us into the frame of a mental asylum: The MIT student actors are mental patients who, as part of a "Drama Therapy" session, put on a stunning version of Uncle Vanya where Chekhov's characters are played by two actors each and where the dramatic illusion is periodically interrupted by reminders of the hospital.

The Tech: Did you plan to make My Uncle, or was the production originally intended to be *Uncle Vanya*?

Anna Kohler: It was originally intended to be My Uncle. I was making plans to slightly adapt it and effectuate certain changes upon the script, putting in a different setting. The reason why it became My Uncle was because at the very beginning of conceiving the play I was planning to make the main focus Sonya, the young woman who is telling the story of her uncle. But it started to transform, informed by the fact that I worked with the people that I was working with. It actually came to revert back to a more original version of Uncle Vanya. The idea of basing it in a mental institution or something came from starting to read the play with the students, because one of [their] first observations was, "God, these people are so depressed, they all have one psychological malfunction or another. It would make sense if they were in some kind of ... in treatment, some kind of therapy." Somebody said, "They should be on meds," because that's what we think nowadays. But when Chekhov wrote the play, there was no such thing, as...

TT: As a mental asylum?

AK: Mental asylums, yes, but no therapy, no mood enhancers, no medication of that kind. So it became a very interesting concept, because, to me, the most interesting aspect of making plays is not to bring the people who work on the play close to the play, but to bring the play to the people, so that there's a connection being made, between who the

people are who are actually performing the play, as in MIT students, and what the play is. So to me it's not interesting to try and pretend that, because one of the things that people could say is "Why on earth do Uncle Vanya with a cast of twenty-year-olds -

TT: Or the professor, who's sixty-five?

AK: Yes, who's old and getting disillusioned, exactly. To me, it's of absolutely no interest: we all work on walking like old people, put on beards and gray hair wigs, to pretend to be old. That would be doing the play a disservice. What's interesting is to find a way to make the play about the people who are making it, and about the people who are actually watching it. In that way, I brought it close to us, which made the fact that the professor is actually a [thirty-yearold] graduate student - old in comparison to everybody who's still currently [an undergraduate] at MIT.

TT: It's interesting that the idea of setting it an asylum with all the medications sprang up naturally, because it's an unnatural idea to impose on a Chekhov play.

'What's interesting is to find a way to make the play about the people who are making it, and about the people who are actually watching it.

AK: Well, I don't know if I agree completely, but — yes, to see how it came as a completely natural comment on the play, from a person who is a contemporary, who is living now, in the twenty-first century, as opposed to then, when Chekhov was alive. As I said before, there are really two different schools of thinking. The one thinks you have to historically recreate plays, make them be how they were when they were first written. The other says that the author's intention is really that you refresh the play, bring it to the present, because that's why he wrote it when he wrote it. The traditional theater scene in Russia when Chekhov wrote this play was very much against him. They thought he was way too modern. Only

when he found Konstantin Stanislavsky, an avant-garde and very progressive theater director for his time, [were his plays] brought out with success. So it stands to reason that Chekhov wanted his plays to be modern, to be relevant. Hence my feeling that it is absolutely necessary to make Uncle *Vanya* relevant for now and for here.

TT: In the parts where the doubles are performing the same scene, but at different times and with totally different emotion intentions: did you plan that? Did the acts come to you with different ideas? For example, in one scene, Vanya is yelling and the other is speaking almost at a whisper.

AK: The doubling effect was interesting because I see the characters in the play as archetypes. They are, simply, all of us. Uncle Vanya is reflected in all of us. It's a side of myself that I don't like very much, but I know it very well, my Uncle Vanya side. Or my Sonya side. It was interesting to have two actors play the same character to show how many different facets an interpretation of the same character can have. Charlie Brown is also *Uncle Vanya* to me, only for children. The way that Charlie Brown talks like "oh well, it's not going to work out anyway," he always gets rocks instead of Halloween treats in his bags — it's just so much Uncle Vanya! When I went through the audition process, it was enormously important to see who would actually resonate with who else in the cast.

I said, "This is a moment that is extremely cinematic, and the reason we can do it is because we have this spatial setup: we have the swivel chairs, so the audience can choose if they're watching here or there. It's as if they get their own private performance. You can go completely apart and do your own thing there. Just make it very intimate, and very authentic."

TT: The character Elena switches into Russian near the end. Why?

AK: It was a nod of the hat: first, that it's Chekhov; second, she is an actress who is Russian; and third, I like the juxtaposing music of the Russian and the English going at the same time, and how different that sounds, how different the music. They were saying the same text, yet it sounded so different. Our language can color what a text actually is.

I was very specific about which translation I picked for this production. I used the one by Paul Schmidt, an old friend of mine

My Uncle

Directed by Anna Kohler February 9–11, 16–18, 2012

Pritchett Dining, Walker Memorial

I got an opportunity to work with on stage in a company called the Wooster Group. He had adapted his translation of Three Sisters [another Chekhov play] according to what we were doing in the show, and what the ensemble needed. So I knew that his translation of *Uncle Vanya* would be the most appropriate for us, because it was extremely flexible, as far as language is concerned - very hands-on language, no highfalutin theater. Which is what we needed to bring it to our understanding, bring it close to us.

TT: Did you decide [on the Pritchett

AK: I've been dreaming of doing something set-specific with the students, and this particular place seemed to be perfect. I can't tell you how excited I was when I had just talked about this mental institution idea, and I saw Pritchett and I immediately thought of One Flew Over the Cuckoo's Nest. It was a real flashback to that milestone movie, in 1975 [placed in a mental institution]. To have the space resonate on that level with that One Flew Over the Cuckoo's *Nest* idea made it so exciting to me because a proscenium theater is very limited. You can only tell one kind of story. And, particularly, you cannot tell a story that you can really be in, as an audience member. I wanted to create something that was almost like a Surround-O-Rama. That's why during the welcome, I want orderlies who walk up and down the hallways as the audience is walking up the stairs, in their white stockings, and they're kindly introducing the audience to all the aspects of the show, and telling them that they're checking into the hospice, and not coming as audience, but checking in like they're patients.

Spoilers ahead! Be sure to head over to the blogs at http://techblogs.mit.edu for the rest of the interview.

BOOK REVIEW

The other side of the world

Lives collide in Murakami's alternate reality 1084

By Derek Chang

STAFF WRITER

1Q84 marks Japanese author Haruki Murakami's 12th novel, and is considered by many to be his magnum opus. First published in Japan as a collection of three vol-1Q84 was just released in the United States in October under one cover. The book, which is over 900 pages, is quite different from his previous works, but as a long-time Murakami fan, I was not disappointed.

1Q84 takes place in Tokyo in 1984 the title was inspired by George Orwell's novel 1984. The novel details the stories of two individuals during the convergence of their lives towards each other: Tengo lives an ordinary life as a math teacher at a cram school and writes fiction on the side; Aomame is a fitness instructor involved in murdering men who have committed serious sexual abuse. Both characters live mundane, somewhat disillusioned lives. At the beginning of the novel, Aomame leaves a taxi on a congested highway, climbing down the emergency stairway to make her meeting. Through such a process she enters 1Q84, an alternate reality that exists alongside 1984. It is through this alternate reality that Aomame and Tengo meet after almost 20 years.

There were two literary references I found particularly meaningful and relevant. The first is a reference to Anton Chekhov's concept that if a gun is present, it must be fired. The second reference, to Marcel Proust's work In Search of Lost Time, is used to connect with the characters' situations, and even seems to mirror the essence of 1Q84.

The genre of 1084 is relatively unclear. It contains elements of mystery and fantasy, such as those in Murakami's Kafka on the Shore and A Wild Sheep Chase. But it also is a love story depicting how the two main characters' paths meet again after a surreal encounter in elementary school. In this way, the novel contains similarities to Murakami's Norwegian Wood and Sputnik Sweetheart, though the romantic aspect isn't discussed in detail.

Murakami introduces social commentary through several angles. He discusses oppression and differences by describing a Spartan and ultraconservative religious cult that is an effective brainwasher. He covers family and sexuality issues through his depiction of Tengo's broken family, though Tengo's initial affair with another married woman ironically seems to mirror the situation with his own parents. The classic theme of disillusionment and dissatisfaction in modern society continually presents itself in Tengo and Aomame's lonely, stagnating lives.

Murakami's language use remains similar — elegant and not overly dramatic, with hints of sarcasm and wit. His characters are introverted, introspective, and imperfectly perfect — classic Murakami protagonists. In this novel, even relatively minor characters possess similar qualities.

Unfortunately, although many of the characters play such a deep role in the novel, their entrances and exits are abrupt. Eriko Fukada, the dyslexic girl whose novel Tengo translated, seems to be as deeply in-

volved in the novel as the two main characters, but even her role in the story does not end conclusively. The dowager, who works with Aomame and manages a recuperation home for abused women, and Tamaru, the dowager's gay bodyguard from Sakhalin, also leave their roles in the novel in a similar way. Apart from Tengo and Aomame, the only character to have the story told from his point-of-view is Ushikawa, a hideously ugly but highly competent inspector.

Like the rest of Murakami's novels, 1Q84 explores isolation, loneliness, and delusion to describe the otherworldly ordinary. Similarly, the novel combines the mundane with the surreal, and merges Eastern and Western influences. 1Q84 is an ambitious work in that it combines several stories and ideas into one, unlike his other more specific novels. It doesn't exactly have the dreamlike quality of Kafka on the Shore; the slow, contemplative roll of The Wind-up Bird Chronicle; the wistful coming-of-age romance in Norwegian Wood; or the sharp surrealism in Hard-Boiled Wonderland and the End of the World. But it has elements from many of his previous novels, which gives the novel a complex, but also less personal, feel. The novel moves slowly, taking even several hundred pages to set up the setting before the plot accelerates and unfolds as it reaches the end. 1Q84 is a long, worthwhile ride, but lacks the punch of his shorter works.

I disagree with critics who say that reading one Murakami book is almost like reading them all. If such a comment can be made about one author, it might as well be made

1084

By Haruki Murakami, trans. Jay Rubin and Philip Gabriel

Knopt

October 2011

about virtually all authors. While themes in his novel remain fundamentally consistent, each work has its own marked nuances, with some works being dramatically different from the others. It is true 1084 seems to merge themes and ideas from previous models into one major work, but the end result of combination is still completely different.

While 1Q84 was worth the read, I don't recommend it for someone new to Murakami. It will likely be confusing and frustrating for new readers, and it isn't representative of his work. Readers looking for a love story will be disappointed and should look elsewhere. For this purpose, Norwegian Wood does a better, more direct job. Kafka on the Shore, an intense page-turner, might be his best work for readers looking for introspection and surrealism. It is also virtually impossible to describe what 1Q84 is about to somebody who has not read it, but for those more experienced Murakami readers who are willing to discipline themselves and work through the convoluted beginning, I highly recommend 1Q84.

BALLET REVIEW

Quite simply, sublime

Boston Ballet opens 2012 with a captivating program featuring works by three different choreographers

By Angelique Nehmzow and Grace Young

STAFF WRITERS

Curious and curiouser ...

Opening this season at the Boston Ballet is *Simply Sublime*, an ensemble of three short and sweet ballets. The three ballets are distinct, but complement each other nicely to create a surreal and otherworldly sense.

The first act is Michel Fokine's *Les Sylphides*, a traditional romantic ballet that is historically important because it was the first ballet without a narrative (unlike *Swan Lake, The Nutcracker*, and other famous ballets). For this ballet, the curtains rise to reveal a young male poet surrounded by a constellation of sylphs, with a ruined building and a dark forest in the background. Each dancer, an ethereal spirit of the air, wears petite wings attached to the small of her back, and is dressed in a puff of chiffon and a white leotard.

To the glorious music of Chopin, three

of the ghostly sylphs dance solo. Many of their moves are almost painfully beautiful, as one leg transitions on and off pointe, and the other leg poises gracefully in the air. The other sixteen sylphs dance in clusters while the enchanted poet wanders through a maze of their fluffy skirts and graceful, swirling arms. Exquisite as porcelain dolls, they dance with a gracious stiffness or hold poses with statuesque stillness.

Exquisite as porcelain dolls, they dance with a gracious stiffness or hold poses with statuesque stillness.

As the curtains lower, they close on this enchanting dollhouse world, with its strange and alluring fairies. In stark contrast, when they rise again, they expose four couples, whose shadows extend over a solid white backdrop.

Christopher Wheeldon's *Polyphonia* is a series of duets performed under dramatic lighting and to the rhythmic, sharp music of György Ligeti. The dancers wear simple royal-purple leotards, which emphasize their athleticism and bring to mind the studio where they spend long, hard hours practicing.

The dancing style is a transfixing combination of gymnastics and modern ballet. The dancers seem neither male nor female, but somehow almost insect- or robotlike. In a powerful display of their physical prowess, they spend much of the time contorted around one another, in the air or on the floor.

The third and final act, George Balanchine's *Symphony in Three Movements*, brings the evening to its climax. Stravinsky's music plays triumphantly as the troupe of dancers prance and twirl energetically in a diagonal across the stage. The deep azure backlighting, which colors the white leotards powder blue, and the men wear-

Simply Sublime

Boston Ballet Company

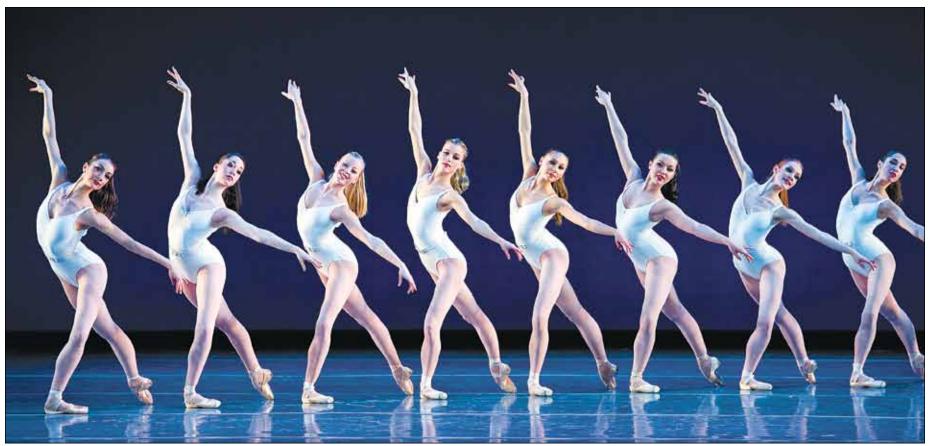
Through February 19, 2012

Boston Opera House

ing tight T-shirts and pants, are reminiscent of a beach scene from the 1920s. There is a playful, whimsical atmosphere, which is reinforced by the women skipping, jumping, and sporting girlish ponytails.

Whilst each ballet is emotionally moving and thought-provoking on its own, the combination of the three takes the audience on an exciting and bewitching journey. The pieces balance and enhance one another, and maintain a carefully calculated tension throughout. Their order and execution deftly achieve the transition from the haunting and classical to the captivating and modern.

, Simply Sublime is, quite simply, sublime.



OURTESY OF GENE SCHIAVONE, BOSTON BALLE

Balanchine's energetic Symphony in Three Movements rounds off Boston Ballet's Simply Sublime. The whimsical piece brought the ballet to a sweet conclusion.

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FRIDAY, FEBRUARY 17, 2012 THE TECH 7

Hockfield resigns **following successes** *Will stay on until new president is*

appointed by executive committee

Resignation, from Page 1

complex (Building 46). Some of that money also went to the endowment and graduate student support.

"I never imagined I would do any more than 10 years," Hockfield explained. "Eight years is a long time on top of the seven I already served. I don't imagine I can do another eight years.'

But Hockfield says she is not leaving the president's office because of a distaste for fundraising. "I love fundraising for MIT," she said. "I have been excited by it, inspired by it. ... It is one of the most exciting things that I've ever done."

Stopping now makes sense, she said, because a "transition in the middle of an eight year campaign is very difficult. We have enormous momentum now."

Looking back

Fundraising and related efforts were central to the Hockfield presidency. Over the past seven years, MIT collected \$3 billion in donations - more than under any other president, according to the News Office.

The president credited her success to MIT's appeal as a problem-solving place, the vanguard of world-changing technological innovation. "We had some good years and some tough years. That's part of it. Part of it is that this is MIT's time. ... People have seen how much MIT helps in addressing the world's problems."

Enhanced national and global visibility was also key to fundraising, she added. One of her goals as president was "to get MIT's story out," and, indeed, Hockfield has extended MIT's reach globally with several new international partnerships and nationally via increased political engagement in Washington. President Barack Obama, for instance, appointed Hockfield to co-chair his Advanced Manufacturing Partnership, an effort to make the United States more globally competitive in the manufacturing realm.

"Once people understand MIT's mission, they are more likely to give," the president said. "I came in saying MIT needed to be a brighter beacon of inspiration. ... As people understand more about MIT, they find it is a place where their resources will do good."

Executive Vice President and Treasurer Israel Ruiz SM '01 agreed. "She's been very effectively matching the needs of the Institute with sources of funding," he said. "In that regard, she's been quite transformative for MIT"

Hockfield's efforts were not solely targeted abroad or in Washington. She has repeatedly called for the development of an "innovation cluster" in the Kendall Square area by attracting high-tech research companies and startups. Last year, pharmaceutical giants Novartis and Pfizer announced plans to greatly expand their footprints in the Kendall Square area. Plans to revitalize Kendall's T-station area are still working their way through the city government.

Since taking office, MIT's endowment has grown from \$5.9 billion in 2004 to \$9.7 billion last year

— though it had dropped a steep 20 percent in the wake of the financial

Reflecting on her presidency, Hockfield expressed her gratitude for the rest of her administration. "We just had extremely good fortune and great allies in doing this at MIT," she said, "these jobs are not solo performances; they are team

Would the president do anything differently if she could go back and start over again?

"It'd be great if there hadn't been an economic collapse," she said, but "you can't choose the times in which you live or serve. In terms of MIT we are in a great place

Looking forward

The search for MIT's new president will begin immediately. After Vest announced his resignation in December of 2003, it was not until August of 2004 that Hockfield's presidency was publicly known. She will continue to serve as president until her successor is picked.

According to the bylaws of the MIT Corporation, the new president must be nominated by the Executive Committee and then approved by a majority vote of the entire Corporation. Students and faculty will also have input in the search via recommendations to the Executive Committee.

"I cannot anticipate what my successor will do," she said, "That's part of the beauty of these institutions. ... It's a privilege to be in this role and I hope my successor enjoys it as much as I have."

Hockfield plans on taking a sabbatical after her successor is appointed. She plans on continuing as a faculty member in the Department of Brain and Cognitive Sciences, but her precise role is still unclear. "I don't know exactly what life after the presidency will hold," she said, but "I am, by nature, an enthusiast for what MIT does and I'm really very much looking forward to being a part of the community as yet to be defined."

The nature of the capital campaign that Hockfield successor will oversee is also not clear. "The framing and design of the campaign is on the table," said Ruiz. "Momentum has been built, need has been identified."

Since MIT is in the process of determining the contours of that campaign - incorporating input from the Academic Council and the Corporation, according to Ruiz -Hockfield saw now as a good time for a transition.

The president fondness for MIT, and especially its students.

"I remember when I first understood the GIRs," she told The Tech, "I remember stopping and thinking, 'Wow,' When you decide to come to MIT you know that you are signing up for a more demanding environment than if you had gone to one of the other great schools you were admitted to. ... I have optimism for our future, because of young people who decide to take the harder route. ... My message out to the students is thank you for being so willing to take on the hard problems at MIT and beyond."





Supporters of the LaRouche political action committee display signs and pass out packets at 77 Mass. Ave. on Friday afternoon. The PAC, formed by Lyndon H. LaRouche, Jr., believes that the world is currently under threat from a "British-Liberal" plot to drastically reduce the world's population through a global thermonuclear war.



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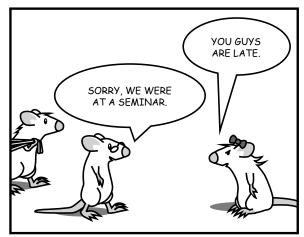
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UPPERCUT by Steve Sullivan



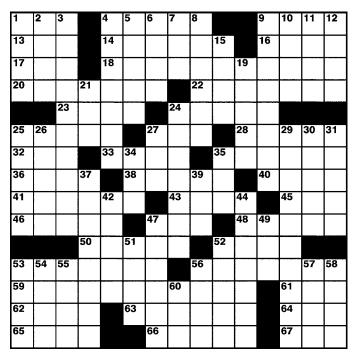




Take Two

Solution, page 11

By David W. Cromer



ACROSS

- 1 Be in a cast
- 4 Like gymnasts 9 Neglect to include
- 13 A question of method
- 14 Betrays eager anticipation
- 16 Apple or pear
- 17 Inventor Whitney
- 18 DNA's shape 20 Chanted words
- 22 Renowned
- 23 Filmmakers' family
- name
- 24 Rat race 25 Lone Ranger's farewell
- 27 Settle accounts
- 28 Cameroon neighbor
- 32 Badminton gear
- 33 Hoo-ha
- 35 Image receiver
- 36 Smooth-talking 38 Reeves of Speed
- 40 Oklahoma city
- 41 Very
- 43 Percussion instrument
- 45 Highly skilled one
- 46 Pine product
- 47 "Spanking" condition 48 Not as common

- 50 Dragged from behind
- 52 Sanctified 53 Carnivorous plant
- 56 Giant of French
- modern art
- 59 Attachment on some mufflers
- 61 Train or truck or tractor
- 62 Dot on a map
- 63 Summon stentoriously
- 64 Costs
- 65 Chaz Bono's mom
- 66 One of the Celtic nations
- 67 Obviously abashed

DOWN

- 1 Throat-clearing sound
- 2 Liter-bottle buy
- 3 Minneapolis and St. Paul
- 4 Give an oration to
- 5 Bad-joke response
- 6 Letters from debtors
- 7 High-arcing shot
- 8 Queen of mysteries 9 Ball club's day off
- 10 Counterspy
- 11 Poker declaration 12 Part of a cell-phone

- service plan
- 15 Highway hauler
- 19 Depend (on) 21 Overly
- 24 Not parked outdoors
- 25 Wrath
- 26 Do research
- 27 Slapstick projectile
- 29 Sirius, for instance 30 Out of action
- 31 Public Citizen
- cofounder
- 34 It may stop a fight 35 Operate
- 37 More likely to crumble
- 39 Immediately
- 42 Nighttime noise 44 Picturesque caves
- 47 Dewey, to Donald 49 Three-time
- heavyweight champ
- 51 Like some fake fruit 52 Rashness
- 53 Bank acct. guarantor
- 54 Luxurious
- 55 New Haven institution
- 56 Consider, with "over" 57 Filled with 25 Down
- 58 Examined 60 Just like



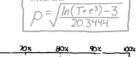
by Randall Munroe

[1017] Backward in Time

WHEN I HAVE A BORING TASK TO GET THROUGH - A THREE-HOUR LECTURE, A GIANT FILE DOWNLOAD, OR A LONG-TERM POINT GOAL IN FITOCRACY-I USE THIS FORMULA TO CONVERT THE PERCENTAGE COMPLETED (P) INTO A DATE:

 $(CURRENT DATE) - (e^{20.3444p^3+3}-$

WHEN THE TASK IS OX DONE, IT GIVES TODAY'S DATE, AND AS I MAKE PROGRESS, I MOVE FURTHER AND FURTHER BACK IN TIME



IT MOVES SLOWLY THROUGH THE PAST PEV YEARS, THEN STEADILY ACCELERATES. I TUNED THE FORMULA SO THE TIME SPENT IN EACH PART OF THE PAST IS LOOSELY PROPORTIONAL TO HOW WELL I KNOW IT. THIS MEANS I HIT FAMILIAR LANDMARKS WITH EACH BIT OF PROGRESS, GIVING ME A SATISFYING SENSE OF MOVEMENT.

7.308% DECEMBER 18, 2011 KIM JONG-IL DIES. US LEAVES IRAQ.

31.12% FEBRUARY 1995 WINDOWS 95 DEBUTS OJ FOUND NOT GUILTY

47.91% 1844 AROUND THIS TIME: RUBBER VULCANIZED. BICYCLE INVENTED, WRENCH PATENTED.

70.33% 24,000 YEARS AGO AROUND THIS TIME: CAVES PAINTED CERAMIC ART MADE. NEANDERTHALS EXTINCT.

90.42% | 68 MILLION YEARS AGO AROUND THIS TIME FIRST FLOWERING PLANTS CHICKULUB IMPACT KUS OFF MOST DINOSAURS.

13.76 BILLION YEARS AGO AROUND THIS TIME: UNIVERSE BEGINS. FIRST STARS IGNITE DOWNLOAD COMPLETE

SWOOSH! WATCHING ALLTHAT TIME BLUR PAST IS SUCH A RUSH!

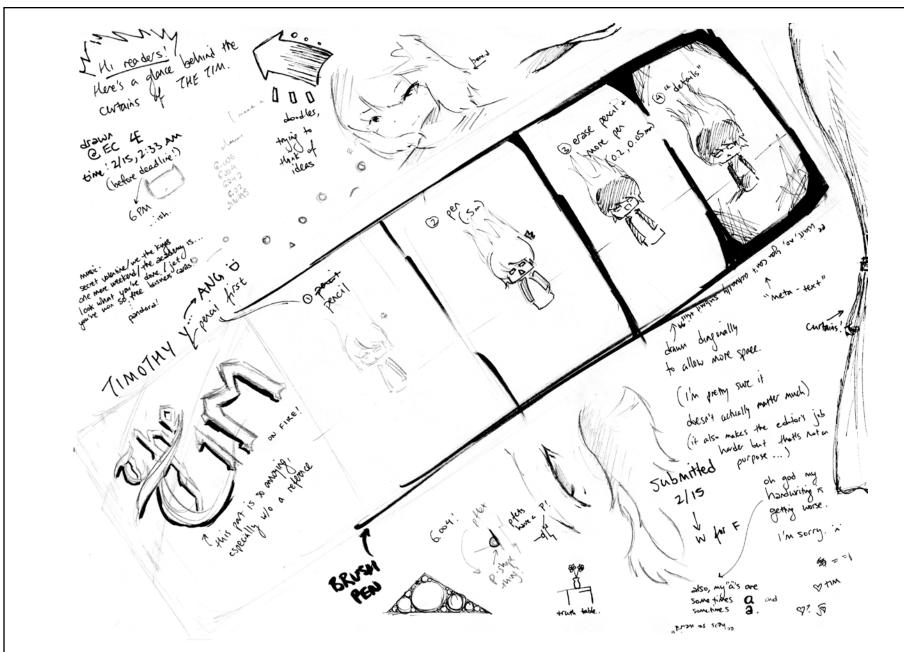
50 ... YOU'VE TRIED TO MAKE AN EXTREME SPORT OUT OF ... WAITING.



there's too much time, PERIOD.

People tell me I have too much time on my hands, but the problem is taht

The Tim by Timothy Yang



Sudoku

Solution, page 11

| | 7 | | | | 3 | | | 5 |
|---|---|---|---|---|---|---|---|---|
| 5 | | 9 | 6 | | | | | |
| | | | 8 | 4 | | 7 | | |
| | | 7 | | | 2 | 1 | 4 | |
| | 3 | | 4 | 1 | 9 | | 5 | |
| | 1 | 5 | 3 | | | 9 | | |
| | | 2 | | 5 | 4 | | | |
| | | | | | 8 | 6 | | 1 |
| 3 | | | 9 | | | | 7 | |

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 11

| 22+ | | | 3× | | 2 |
|-----|----------|---|-----|-----|-------------|
| 15× | - | | 9+ | | |
| | 40× | | 72× | | |
| | 3 | 1 | | 80× | |
| 12+ | <u> </u> | | 15× | | - |
| 2 | - | 3 | | 11+ | |
| | | | | | ! ! ! |

10 THE TECH FRIDAY, FEBRUARY 17, 2012

Hockfield's many milestones A legacy of successful fundraising and innovation

History, from Page 1

by MIT (they must also gain admission to the Institute).

Hockfield has also made a point of engaging MIT in the national conversation about science and other current events. One of Hockfield's first projects at MIT was the MIT Energy Initiative (MITEI), a campuswide program that looked to improve efficiency on campus and help tackle global energy problems. She announced the program during her inauguration in May 2005, and appointed an Energy Research Council that examined these problems.

In December of last year, Hockfield had MIT host a meeting for the Advanced Manufacturing Partnership (AMP), a White House Initiative that aimed to take laboratory achievements and turn them into new technologies to improve the economy. AMP, created by President Obama, will advise him on policy recommendation and manufacturing industries next spring. Hockfield, along with Andrew Liveris, the CEO of Dow Chemical, are co-chairs of the Steering Committee.

Another major development in Hockfield's career was the recent unveiling of MITx, a new online learning system that will allow people around the world to access an MIT education. The program will grant certificates for a yet-to-bedetermined fee, and is debuting for free this semester with 6.002x (Circuits and Electronics).

Internal changes

The \$3 billion that Hockfield's administration raised came through a number of channels. One notable example was the \$24 million donation from Fariborz Maseeh ScD '90 that enabled the renovations of W1 to finish. Reopened as Maseeh Hall this fall, W1 provided space for a larger freshman class, allowing MIT to expand its undergraduate class size by 10 percent.

"That project came out better than we could have ever anticipated," Hockfield said of Maseeh Hall in an interview with The Tech yesterday. "It's just exciting to be in Maseeh....and feel that buzz of activity and enthusiasm."

Hockfield's presidency also saw a massive donation from David H. Koch '62 for the new integrative cancer research center near the Stata Center.

In the wake of the 2008 financial crisis, when the endowment shrunk by 21 percent, Hockfield guided MIT through a series of budget cuts, though she made a point to preserve the Institute's need-blind admissions policy and refused a hiring freeze. By 2010, MIT balanced its budget for the first time in a decade.

At the same time, trimming the budget resulted in eight varsity sports being cut from the athletic department, which was very unpopular with students. Besides athletics, all departments had to cut parts of their budgets as well, resulting in layoffs and reductions in student-life amenities such as shuttles and printing.

The MIT 2030 framework, which Hockfield announced last year, will require renewed fundraising efforts. MIT 2030 will include a number of campus renovations and new construction projects, along with several real estate development projects at MIT and the surrounding area. In addition to a \$750 million bond sale, MIT hopes to raise another \$750 million through donations to finance MIT 2030.

Dining proved to be a controversial topic throughout Hockfield's career at MIT. Hockfield's administration pushed for an expansive dining program that required students who lived in dining dorms to purchase meal plans. Students countered the proposals with stiff opposition, but the dining plan was implemented this past fall with some flexible options.

Hockfield will continue to serve as president until her successor is appointed.

Looking to the future: Susan Hockfield's resignation letter

To the Members of the MIT Community:

I write to share with you my decision to step down from the presidency of MIT. Over the past seven years, working together we have accomplished far more than I set out to do. The Institute is now moving forward on a new set of ambitious goals, and I have concluded that the powerful momentum we have built makes this an opportune moment for a leadership transition.

I came to MIT in December 2004 with a profound sense of the privilege and the responsibility of the president's role. But nothing could have prepared me for this remarkable community of creative minds. Together, we have made tremendous progress in dozens of ways, strengthening MIT's foundations and setting our sights for the future. We are designing the policy, technology and education required to address the global need for sustainable energy. We have accelerated MIT's ability to synthesize the strengths of science and engineering to fight disease and to invent new powers of computation. We have expanded the Institute's global connections. We are charting a course to a new future for American manufacturing. We have also built a framework for the future of our campus and neighborhood, fortified the Institute's financial structures, strengthened MIT's culture of inclusion and increased the number of undergraduates we can educate. With the recent introduction of MITx, we are changing the conversation around affordability, access

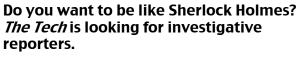
and excellence in higher education. Through last year's celebration of MIT's Sesquicentennial, our community emerged reenergized and refocused on our mission of service to the nation and the world. And we achieved all this and more while steering the Institute through the worst global financial crisis since the Great

The momentum of all that we have accomplished has tempted me to stay on to see our many efforts bear their full fruit. But to support our ambitious goals for the future, MIT has begun the crucial work of planning for a significant new fundraising campaign. A campaign on this scale will require the full focus and sustained attention of the Institute's president over many years. I have concluded that it would be best for the Institute to begin this next chapter with new leadership.

Presidential searches generally take time; I will serve until my successor is selected by the MIT Corporation and is ready to assume the role. I look forward to continuing to be a member of the MIT faculty.

The coming months will offer many opportunities to reflect on our work together, but for now, let me simply thank the faculty, students, staff, alumni and friends of MIT who have given of themselves to advance the mission of MIT. While I expect new intellectual adventures ahead, nothing will compare to the exhilaration of the world-changing accomplishments that we produced together.

Most sincerely, Susan Hockfield



join@tech.mit.edu



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This program provides opportunities for MIT undergraduate students to conduct research at state-of-the art Army laboratories working under the direction of Army scientists. Most areas of science and engineering are of interest. Internships typically run from June to August

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- Gain valuable research experience
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- · Access world-class facilities
- Become part of a team that provides new, life-saving technologies.

If you are interested in learning more about this program the first step is to register at the website:

https://isn.mit.edu/internship/index.php

If you have questions about this program, or experience difficulty using any features on website, please contact Marlisha McDaniels- mmcd@mit.edu or the ISN Headquarters, NE47-4thFl. 617.324.4700.

*The Army Lab provides the intern's salary, which typically ranges from \$2280/month to \$2864/month depending on class year. Under certain circumstances the ISN can provide the intern with a supplement of up to \$1500 to defray costs of local accommodations and travel.

The ISN: The mission of the MIT Institute for Soldier Nanotechnologies is to dramatically enhance Soldier protection and survivability through basic research on nanotechnology and collaboration with Army and industry partners to transition promising research into practical capabilities.



at Massachusetts General Hospital. We are looking at whether brain imaging tests show changes in people who are treated for depression using talk

Total compensation is up to \$455 if you complete the entire study. The cost of the therapy will be billed to you or your insurance company in the usual way.

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FRIDAY, FEBRUARY 17, 2012 THE TECH 11

Suffolk Downs proposal may deter casino rivals

By Mark Arsenault

THE BOSTON GLOBE

The widespread perception that the Suffolk Downs casino proposal, with its strong political backers, has a lock on development rights for Eastern Massachusetts may be discouraging some casino companies from competing in what is expected to be the state's most lucrative gambling market, specialists

Only one developer, Steve Wynn of Las Vegas, has stepped forward to compete with Suffolk Downs for the single license available in the eastern part of the state. That pales in comparison to the free-for-all in western Massachusetts, a smaller market that has drawn significantly more interest from casino companies.

"At this point, most people [in the industry] believe that Suffolk Downs has it locked up," said Roger Gros, publisher of Global Gaming Business, a trade magazine that covers casino gambling. "That's pretty much the opinion right now, that they've got it."

The head of the state's gambling commission is adamant that the process will be open and fair, and that any assumptions about Suffolk Downs are completely unfounded.

But the sense of inevitability has been enough to give pause to casino mogul Sheldon Adelson. The Bostonborn chief executive of Las Vegas Sands and the 16th-richest person in the world, according to Forbes Magazine, is hesitant to bid for a casino in his native state because he believes that the fix is in for Suffolk Downs, the billionaire told Global Gaming Business for a December article.

The perception that the competition is over before it even formally begins runs contrary to the intention of the state's new casino gambling law, which was designed to promote competition among developers in three geographic regions of the state, in order to attract the most lucrative and innovative projects.

In the western region, the law has had its intended effect.

At least five casino companies are competing, or expected to compete,

Solution to Crossword

MANTRASEEMINENT COENGRIND

A G I L E O M I T D R O O L S P O M E D O U B L E H E L I X

for development rights to a casino in western Massachusetts. Mohegan Sun. MGM Resorts, and Ameristar have each chosen locations in that region, while Hard Rock International and Penn National Gaming are tentatively linked to western Massachusetts

But in the region covering Greater Boston and Worcester, Suffolk Downs and its partner, Caesars Entertainment, currently face just the Wynn proposal, pitched for land in Foxborough owned by New England Patriots owner Robert Kraft.

"Wynn always goes against [conventional wisdom], so I wasn't surprised to see him jump in with Kraft," said Gros. "He dances to his own tune, that's for sure."

Although several landowners in the eastern region are publicly marketing their sites for casinos, no other gambling company has joined Wynn in public competition against Suffolk

The southeastern region also lacks competition at the moment, but that is by design. State law delays bidding on a casino license in the southeast until at least August to give the Mashpee Wampanoag tribe time to make progress toward winning federal approval for a tribal casino in that region. The deference to the tribe is being challenged in federal court.

The perception that Suffolk Downs is a lock in Greater Boston is longstanding, predating the legalization of casino gambling in Massachusetts.

Two days before Governor Deval Patrick signed the legislation last November, the Las Vegas Review-Journal, a close observer of the casino industry, wrote that Suffolk Downs "is all but assured the license for the lucrative Boston market," due to support from key Massachusetts politicians and the Bay State ties of Caesars chief executive Gary Loveman PhD '89.

Loveman lives in Wellesley, holds a doctorate from MIT, and is a former Harvard Business School professor.

The high-profile backers of Suffolk Downs include House Speaker Robert A. DeLeo, whose district hosts the racetrack, and Mayor Thomas M. Menino of Boston, a longtime friend of Suffolk Downs investor Joe O'Donnell.

Menino has been outspoken in supporting the Suffolk Downs location, and casino officials say they got the message.

New UA Council appointed, meeting soon

The UA Council, the UA's main ruling body • Benjamin I. Shaibu '14, New House that replaced the Senate, has been almost completely filled, with the off-campus representative yet to be determined. The Council includes representation for every dorm, the Interfraternity Council (IFC), the Panhellenic Association (Panhel), the Living Group Council (LGC), and off-campus residents, each selected in a way determined by their constituents. The Council will have its first meeting on Tuesday, Feb. 21 at 7:30 p.m. in the Senate Chambers, W20-400, according UA Vice President Amanda C. David '13. The meeting will be open, and food will be served.

The members of the council are as follows:

- Brian Luque '12, Baker House
- Janille "Affi" Maragh '13, Burton Conner House Robert M. Johnson '13, East Campus President
- Ryan T. Normandin* '13, former MagGregor
- House senator Sungmin "Regina" Cho '14, Maseeh Hall President
- Elise A. Stave* '13, McCormick Hall

- Alec C. Lai '13, Next House President
- Alexandra M. Westbrook '13, former Random Hall senator
- Katy I. Gero '13, Senior House
- Eli H. Ross '14, Simmons Hall

- Thomas A. Anderson '13, IFC president,
- Kyle M. Smith '13, Kappa Sigma
- Alexander T. Kiefer '15, Zeta Psi
- Douglas O. Sanchez '14, Theta Delta Chi

- Denzil Sikka '13, Panhel President, Alpha Phi
- Christine S. Lai '13, Alpha Chi Omega
- Lauren M. Allen '13, Kappa Alpha Theta

Alexander W. Dehnert '12, Epsilon Theta

Off-campus

To Be Determined

—Bruno B. F. Faviero

* — Normandin and Stave are Tech staffers.



Nora H. Mallory '12 and Jeffry Disko '10 perform in the MIT Dramashop's production of "My Uncle," based on the play "Uncle Vanya" by Anton Chekhov. In addition to performing last weekend, MIT Dramashop will show the play this upcoming Thursday, Friday, and Saturday at 8 p.m. in Walker Memorial.

The Council for the Arts at MIT Grants Program

Call for applications!

Deadline: Friday, February 17, 2012 at 5pm

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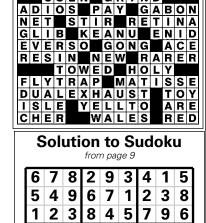
All current MIT students, faculty, and staff are eligible to apply

Information, guidelines, and application form:

http://arts.mit.edu/about/camit/camit-grants/

It is strongly suggested that first-time applicants meet with CAMIT staff before submitting a proposal

Please contact CAMIT director Susan Cohen at cohen@media.mit.edu with questions or to make an appointment



Solution to Techdoku

8 9 7 5 6 2 1 4 3

2 3 6 4 1 9 8 5 7 4 1 5 3 8 7 9 6 2

7 6 2 1 5 4 3 8 9 9 5 4 7 3 8 6 2 1 3 8 1 9 2 6 5 7 4

| 4 | 6 | 5 | 3 | 1 | 2 |
|---|---|---|---|---|---|
| 5 | 1 | 6 | 4 | 2 | 3 |
| 3 | 5 | | 2 | 6 | 1 |
| 1 | 3 | 2 | 6 | 4 | 5 |
| 6 | 2 | 1 | 5 | 3 | 4 |
| 2 | 4 | 3 | 1 | 5 | 6 |

12 THE TECH FRIDAY, FEBRUARY 17, 2012

Nationally ranked volleyball wins Invitational MIT Men's Volleyball team beats Emerson, Rivier, Stevenson, and York on Sunday

By Paul Dill TEAM COACH

Nationally-ranked No. 5 MIT defeated No. 9 Rivier College, 25-16, 25-19, 25-22, en route to



winning the championship of the MIT Men's Volleyball Invitational on Sunday afternoon. The Engineers also swept Emerson

College (25-17, 25-22, 25-13), Stevenson University (25-22, 25-20, 25-13), and York College (N.Y.) (25-17, 25-23, 25-17) to capture their second consecutive title and their fifth overall in the eight-year history of the tournament. Kenneth M. Siebert '14 was

selected to the all-tournament team while David R. Thomas '12 earned Tournament MVP honors for the second year in a row, becoming the first player to accomplish this feat.

Matthew P. Hohenberger '13 powered MIT with 10 kills and a .750 hitting percentage in the opener with Emerson on Saturday. Bradley L. Gross '15 registered six kills and four digs as classmate Alexander C. Klein '15 added five kills and two blocks. Thomas, junior Patrick J. Vatterott and freshman Christopher T. Omahan each posted four kills while Thomas and Vatterott contributed three and two blocks, respectively. Andrew A. Busse '15 generated four blocks in one set as Jeremy J. Velazquez 13 digs as Sngiem chipped in four '12 collected eight digs. Daniel C. Sngiem '12 bolstered the defense with four digs while Siebert earned two aces. Sophomores Evan P. Wang and Paul M. Syta both distributed 17 assists as Wang totaled six digs.

Against Stevenson, Hohenberger notched 11 kills, four blocks, and an ace while Siebert had 10 kills, a .435 hitting performance, and six digs. Klein recorded eight kills, a .471 hitting percentage, and two blocks as Thomas rounded out the attack with seven kills. Syta tallied 34 assists, nine digs, and two blocks while Vatterott finished with six digs, four kills, and two blocks. Velazquez amassed a team-high

of his own.

Thomas earned Tournament MVP honors for the second year in a row.

Graduate-student Malcolm Bean led a balanced attack versus York with nine kills and a .471 hitting percentage to go along with two blocks and an ace. Gross recorded six kills, a .417 hitting performance, four digs, and two blocks as Klein totaled seven kills, a .400 hitting percentage, and four blocks. Wang and Thomas both earned three aces while Wang dished out 20 assists, followed by 10 from Syta. Velazquez led the way with nine digs as Omahan contributed four.

In the finale with Rivier, Siebert paced the Engineers with 15 kills, a .448 hitting performance, and three blocks. Hohenberger posted 14 kills and a .458 hitting effort while Klein had seven kills on nine errorless attempts in addition to three blocks. Syta compiled 36 assists, four digs, three blocks, three kills, and an ace as Vatterott registered three blocks. Thomas led the defense with eight digs followed by seven from Sngiem.

Men's Basketball beats WPI

Team finds redemption and raises record to 23-1

By Shri Ganeshram

On Wednesday, the MIT's Men's Basketball team demonstrated its ability to perform well



under tough conditions, an ability they will need as they fight for the NEWMAC postseason championships and the national championships.

Though MIT had a record of 22-1 and had secured the NEW-MAC regular season title prior to Wednesday's game, they played hard for the win anyway. Their opponent, WPI, was the "1," the blemish, the team that made MIT's perfect season an almost perfect season. WPI's win had come at the expense of MIT's home crowd as they defeated the Engineers in our own Rockwell Cage. On Wednesday, MIT had the opportunity for retribution. They played hard, attempting to steal the WPI players' glory on their own court.

The game looked similar to the last time the teams met, except WPI and MIT had switched roles. In both games, one team ended the half four points down, last time it was WPI, and this time it was MIT. The first half was very much a back-and-forth game, WPI tried to move forward as MIT held on, making a few crucial baskets to tighten the gap like William E. Bender '12's 3-point shot near the end of the half.

The second half was quite a different story. In their first meeting of the season, the second half was where WPI broke away, outscoring MIT by 16 points. Though, unlike Wednesday's game, this lead was built slowly, as WPI played better than MIT throughout the half. In Wednesday's game, the Engineers didn't just break away — they exploded. Right away, MIT responded to their deficit by scoring quickly. At the start of the half, it looked as if MIT was playing a high school squad; the Engineers were running circles around WPI. MIT scored 21 of the first 22 points of the half.

After a free throw on WPI's side, Mitchell H. Kates '13 made a layup, starting a 19-0 drive. During this drive, WPI missed seven shots, three of which were layups, due to MIT's persistent defense. MIT, however, ignored the midrange game, making five layups and two threes along with a couple of free throws. This run took MIT from a 31-35 deficit at the end of the first half to a 52-36 lead with 13:10 left in the second.

WPI attempted to come back for the remainder of the half, giving MIT a scare toward the end by depleting the deficit to only three after a layup, and one with 19 seconds left. Bender, though, prevented WPI from getting any further, making the last four free throws of the game, securing an MIT victory

MIT's big men were a huge part of the team's victory; Noel Hollingsworth '12 was the lead scorer with 21 points, seven rebounds, and four assists, and William Tashman '13 managed his ninth double-double of the season with 20 points and 12 rebounds. The Engineers will next play at home in the NEWMAC semifinals, which will be hosted by MIT in Rockwell Cage on Saturday, Feb. 25.

UPCOMING HOME EVENTS

Friday, Feb. 17

Swimming and Diving NEWMAC Championships 10 a.m.-6:30 p.m., Z-Center Pool

Saturday, Feb. 18

Swimming and Diving NEWMAC Championships 10 a.m.-6:30 p.m., Z-Center Pool

Women's Basketball vs. Clark University 2 p.m., Rockwell Cage

Sunday, Feb. 19

Swimming and Diving NEWMAC Championships 10 a.m.-6:30 p.m., Z-Center Pool

Rifle Alumni Match

9 a.m., DuPont shooting range

SPORTS SHORT

Harvard beats MIT at Bean Pot Tournament on Tuesday

On Tuesday night at Harvard, the MIT's Women's Fencing team entered the Bean Pot Tournament against Brandeis, Harvard, and Boston College. The team arrived with a promising re-

cord of 12-19, straight off a 2-5 record from the Eric Sollee Invitation where MIT crushed Hunter College, 23-4, and Haverford College, 17-12. Throughout time, however, Harvard has boasted a 25-12 record against the Engineers, which means that this match was time to retaliate.

For those who do not know about fencing, the sport has three main events, each with a different weapon: the foil, the épée, and the sabre. The épée is the only fencing weapon that has a whole body target range, and it is heavier and stiffer than both the foil and the sabre. Out of the three matches against Harvard, MIT performed the best in épée, battling Harvard to end the match 5-4, Crimson. The sabre and foil matches were more competitive with Harvard edging out MIT 7-2 and 9-0, respectively. Overall, Harvard took the tournament at 21-6 against MIT.

The Engineers will compete at the New England Championship at Vassar College on Feb. 25 at 8:30 a.m.

-Katie Bodner, Sports Staff

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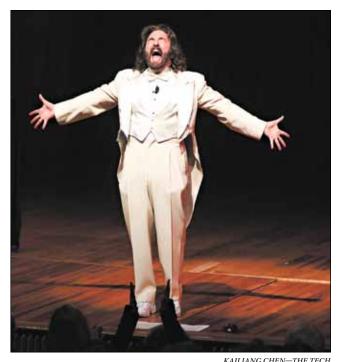
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sports@tech.mit.edu



Magician Larry Wilson jubilantly completes a trick during his performance at Magic Madness in Kresge Auditorium on Sunday evening. The event was sponsored by the Graduate Student Council.